

TFT

Flexible Alternative to Solder Braid and RG Coax for Military and Commercial Applications including, Low Loss Microwave and Wireless Base Station Interconnection.



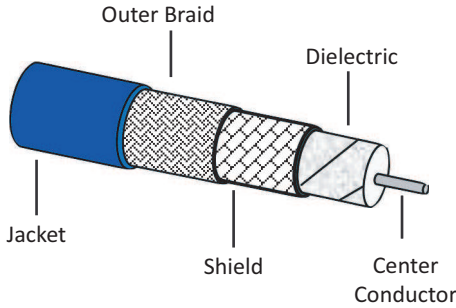
TFT is a better performing alternative to semi-flexible (solder braid) coax and RG type coax for interconnects in military and commercial RF and microwave systems. Unlike solder braid cables, TFT cable's flat braid outer conductor is not susceptible to cracking when bent, allowing for installation in tight spaces without performance degradation. Compared to standard RG cables, the flat braid provides much better shielding and lower attenuation. The FEP jacket provides excellent protection in corrosive environments and is highly resistant to UV making these cables suitable for outdoor installation.

TFT cables are CMP (plenum) rated and provide better than -160 dBc PIM performance when properly terminated, making them ideal for interconnects in cellular base stations and DAS coverage systems.

Features & Benefits:

- Low Passive Intermodulation Distortion (PIM)
- UL910 plenum rated satisfying building code requirements
- Stable Loss, Phase and VSWR vs. Flexing
- Extremely Flexible, Low Minimum Bend Radius
- Lower loss than standard semi-rigid
- Uses Standard Solder-on Semi-rigid Connectors
- Good Shielding Effectiveness

TFT Specifications:



Cable Construction:

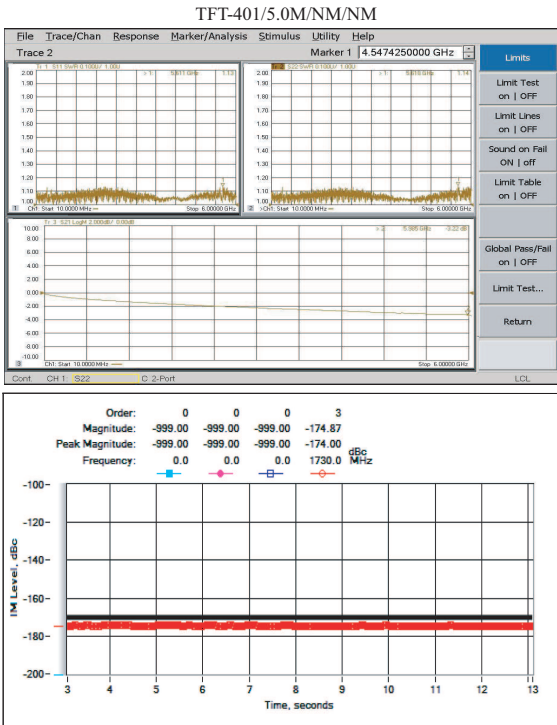
Center Conductor: Silver Plated Copper
 Dielectric: Taped PTFE
 Shield: Silver Plated Copper Flat Braid
 Outer Braid: Tin Plated Copper Braid
 Jacket: Blue FEP

Connectors:

Low PIM connectors are available with interfaces of N, SMA and 7-16 DIN. Please consult Times Microwave Systems with your requirements.

Cable Assemblies:

TFT cable assemblies of standard configuration are available in stock, factory tested for dynamic and static PIM, IL and VSWR. In addition, Times Microwave Systems also provides customized TFT cable assemblies according to the special requirements. Below are some typical test reports.



	TFT-401		TFT-402	
AA Drawing Number	AA-11410		AA-11408	
Physical Specifications				
Dimensions	in	(mm)	in	(mm)
Center Conductor	0.064	1.63	0.037	0.94
Dielectric	0.208	5.28	0.113	2.87
Shield	0.218	5.54	0.121	3.07
Outer braid	0.240	6.10	0.138	3.51
Jacket	0.265	6.73	0.160	4.06
Mechanical Specifications				
Bend Radius	1.375	34.93	0.750	19.05
Weight	78 lbs/1000ft		31 lbs/1000ft	
Operating Temperature Range	-55 to +150°C		-55 to +150°C	
Electrical Specifications				
Impedance	50 Ohms		50 Ohms	
Velocity of Propagation	72%		76%	
Capacitance	28.2 pf/ft		26.7 pf/ft	
Shielding Effectiveness	-80 dB		-80 dB	
Nominal Attenuation: dB/100ft (100m) (+25°C Ambient)				
30 MHz	1.2	3.9	2.0	6.6
150 MHz	2.7	8.8	4.5	14.8
450 MHz	4.8	15.6	7.9	25.8
900 MHz	6.9	22.7	11.2	36.7
2000 MHz	10.7	35.1	16.8	55.0
2500 MHz	12.1	39.8	18.8	61.7
5800 MHz	19.7	64.7	29.0	95.1
Power (kW) (+25°C Ambient; Sea Level)				
30 MHz	3.86		3.00	
150 MHz	1.73		1.34	
450 MHz	1.00		0.77	
900 MHz	0.70		0.55	
2000 MHz	0.47		0.37	
2500 MHz	0.42		0.33	
5800 MHz	0.28		0.21	



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